

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER S.N.F.A.P.417-D(3).

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PILING - JETTING OR SPUDDING OF PSC PILING MAY BE NECESSARY AT THIS SITE TO ACHIEVE THE INDICATED PLAN DRIVING OBJECTIVE.

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

ONE 14 IN SQ PSC X 51 FT AT BENT 1 LT BRIDGE
ONE 14 IN SQ PSC X 52 FT AT BENT 1 RT BRIDGE
ONE 16 IN SQ PSC X 47 FT AT BENT 3 LT BRIDGE
ONE 16 IN SQ PSC X 47 FT AT BENT 3 RT BRIDGE

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

EACH BRIDGE CONSISTS OF

3 - 54'-0" TYPE II PSC BEAM SPANS ----- SPECIAL DESIGN

2 - PSC PILE END BENTS ----- SPECIAL DESIGN

2 - PSC PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")

SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)

BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

CONSTRUCTION SEQUENCE

1. MAINTAINING TRAFFIC ON EXISTING BRIDGE.
2. BUILD RIGHT BRIDGE ACCORDING TO PLANS.
3. SHIFT TRAFFIC TO RIGHT BRIDGE.
4. BUILD LEFT BRIDGE ACCORDING TO PLANS.

THE AFOREMENTIONED SEQUENCE SHALL BE COORDINATED WITH ROADWAY OPERATIONS, SEE ROADWAY PLANS. IN LIEU OF THE ABOVE CONSTRUCTION SEQUENCE, THE CONTRACTOR MAY SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR APPROVAL.

DRAINAGE DATA

DRAINAGE AREA ----- 620 SQ MILES

| FLOOD FREQUENCY | TOTAL DISCHARGE | DISCHARGE THROUGH BRIDGE | MEAN VELOCITY | AREA OF OPENING UNDER FLOODSTAGE | BACKWATER |
|-----------------|-----------------|--------------------------|---------------|----------------------------------|-----------|
| 50 YEAR | 17,900 CFS | 2,065 CFS | 3.08 FPS | 670 SQ FT | 0.13 FT |
| 100 YEAR | 21,600 CFS | 2,478 CFS | 3.34 FPS | 741 SQ FT | 0.18 FT |
| 500 YEAR | 32,000 CFS | 3,706 CFS | 4.09 FPS | 1,035 SQ FT | 0.21 FT |

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, $f'_c = 3,500$ PSI
PSC BEAMS ----- CLASS AAA, $f'_c =$ SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS
SUBSTRUCTURE ----- CLASS A, $f'_c = 3,000$ PSI

REINFORCEMENT STEEL: ----- GRADE 60, $f_y = 60,000$ PSI

PRETENSIONING STRANDS: ----- $f'_s = 270,000$ PSI

UTILITIES

NONE

TRAFFIC DATA

TRAFFIC ----- ADT = 4,500 (2013)
ADT = 6,400 (2033)

DESIGN SPEED ----- 65 MPH

TRUCKS ----- 27 %

24 HR TRUCKS ----- 22 %

DIRECTIONAL ----- 50 %

SUMMARY OF QUANTITIES

| PAY ITEM NUMBER | LEFT BRIDGE | RIGHT BRIDGE | UNIT | PAY ITEM |
|-----------------|-------------|--------------|------|---|
| 500-0100 | 612 | 612 | SY | GROOVED CONCRETE |
| 500-1006 | LUMP | **** | LS | SUPERSTR CONCRETE, CL AA, BR NO - 3 (190) |
| 500-1006 | **** | LUMP | LS | SUPERSTR CONCRETE, CL AA, BR NO - 3 (190) |
| 500-2100 | 312 | 312 | LF | CONCRETE BARRIER |
| 500-3101 | 44 | 44 | CY | CLASS A CONCRETE |
| 507-9002 | 795 | 795 | LF | PSC BEAMS, AASHTO TYPE II, BR NO - 3 |
| 511-1000 | 5400 | 5400 | LB | BAR REINF STEEL |
| 511-3000 | LUMP | **** | LS | SUPERSTR REINF STEEL, BR NO - 3 (50023) |
| 511-3000 | **** | LUMP | LS | SUPERSTR REINF STEEL, BR NO - 3 (50023) |
| 520-2214 | 380 | 385 | LF | PILING, PSC, 14 IN SQ |
| 520-2216 | 350 | 355 | LF | PILING, PSC, 16 IN SQ |
| 520-3214 | 1 | 1 | EA | TEST PILE, PSC, 14 IN SQ |
| 520-3216 | 1 | 1 | EA | TEST PILE, PSC, 16 IN SQ |
| 520-4214 | 1 | 1 | EA | LOAD TEST, PSC, 14 IN SQ (IF REQD) |
| 520-4216 | 1 | 1 | EA | LOAD TEST, PSC, 16 IN SQ (IF REQD) |
| 540-1102 | LUMP | **** | LS | REMOVAL OF EXISTING BR, BR NO - 3 |
| 603-2024 | 850 | 850 | SY | STN DUMPED RIP RAP, TP 1, 24 IN |
| 603-7000 | 850 | 850 | SY | PLASTIC FILTER FABRIC |

BRIDGE NO.3 LEFT AND RIGHT

| | | | | | | | | |
|----------------------|--|-------------------------|--|----|--|---|------------------|--------------|
| DATE | | | | | | GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN | | |
| | | | | | | GENERAL NOTES SHEET | | |
| | | | | | | SR 4 (US 1) OVER OHOOPEE RIVER EMANUEL COUNTY EDS00-0545-00(018) | | |
| | | | | | | NO SCALE NOVEMBER 2010 | | |
| REVISIONS | | | | | | DESIGNED WMD | CHECKED DLC | REVIEWED WEI |
| | | | | | | DRAWN WMC | DESIGN GROUP --- | APPROVED BFR |
| DRAWING NO. 35-36 | | BRIDGE SHEET 2 OF 11 | | BY | | | | |